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(2 AND SODIUM).USPT,PGPB,JPAB,EPAB,DWPI,TDBD.	24
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<u>L3</u>	L2 and "sodium"	24	<u>L3</u>
<u>L2</u>	L1 and "chloride"	38	<u>L2</u>
<u>L1</u>	"biomass" and "culturing" and "seawater"	72	<u>L1</u>

END OF SEARCH HISTORY

FILE 'AGRICOLA, AQUASCI, BIOBUSINESS, BIOSIS, BIOTECHDS, CABA, CAPLUS, CEABA-VTB, FROSTI, IFIPAT, LIFESCI, MEDLINE, OCEAN, PASCAL, PROMT, SCISEARCH, TOXCENTER, USPATFULL, WPIDS' ENTERED AT 20:52:19 ON 30 JUN 2002

L2 128 S L1
L3 69 DUP REM L2 (59 DUPLICATES REMOVED)
L4 17 S L3 AND BIOMASS?

=> s l3 and chloride
L5 11 L3 AND CHLORIDE

=>
=> d 1-11

L5 ANSWER 1 OF 11 FROSTI COPYRIGHT 2002 LFRA
AN 567601 FROSTI
TI Growth of microorganism containing high-concentration omega-3-based highly unsaturated fatty acid.
IN Barclay W.R.
PA Omegatech Inc.
SO Japanese Patent Application
PI JP 2001057881 A 20010306
AI 19931012
PRAI United States 19921016
NTE 20010306
DT Patent
LA Japanese
SL English

L5 ANSWER 2 OF 11 IFIPAT COPYRIGHT 2002 IFI
AN 10058333 IFIPAT;IFIUDB;IFICDB
TI SOLVENTLESS EXTRACTION PROCESS
IN Adu-peasah Swithin Patrick; Engelhardt Brian S; Ruecker Craig M; Veeder George T III
PA Unassigned Or Assigned To Individual (68000)
PI US 2002001833 A1 20020103
AI US 2001-766500 20010119
PRAI US 2000-177125 20000119 (Provisional)
FI US 2002001833 20020103
DT Utility; Patent Application - First Publication
FS CHEMICAL
FS APPLICATION
CLMN 46

1 Figure(s).

FIG. 1 is a flow diagram of one embodiment of a solventless extraction process of the present invention.

L5 ANSWER 3 OF 11 IFIPAT COPYRIGHT 2002 IFI
AN 3707680 IFIPAT;IFIUDB;IFICDB
TI REDUCING CORROSION IN A FERMENTOR BY PROVIDING SODIUM WITH A NON-
CHLORIDE SODIUM SALT
IN Barclay William R
PA OmegaTech Inc (34188)
PI US 6410281 20020625
AI US 1999-461663 19991214
RLI US 1992-911760 19920710 CONTINUATION 5340594
US 1992-962522 19921016 CONTINUATION 5340742
US 1994-292490 19940818 CONTINUATION 5518918
US 1995-461137 19950605 CONTINUATION 5688500
US 1992-911760 19920710 CONTINUATION-IN-PART 5340594
US 1994-292736 19940818 CONTINUATION-IN-PART 5656319
US 1997-918325 19970826 CONTINUATION-IN-PART 5985348
US 1997-968628 19971112 CONTINUATION-IN-PART ABANDONED
US 1995-483477 19950607 DIVISION 5698244
FI US 6410281 20020625

US 5340594
US 5340742
US 5518918
US 5688500
US 5340594
US 5656319
US 5985348
US 5698244

DT UTILITY
FS CHEMICAL
FS GRANTED
CLMN 48
GI 8 Drawing Sheet(s), 8 Figure(s).

L5 ANSWER 4 OF 11 USPATFULL
AN 2001:88017 USPATFULL
TI Eggs containing high concentrations of omega-3 highly unsaturated fatty acids and methods for producing the same
IN Barclay, William R., Boulder, CO, United States
PA OmegaTech Inc. (U.S. corporation)
PI US 2001000151 A1 20010405
AI US 2000-730048 A1 20001204 (9)
RLI Continuation of Ser. No. US 1999-461709, filed on 14 Dec 1999, UNKNOWN
DT Utility
FS APPLICATION
LN.CNT 1459
INCL INCLM: 435/254.100
INCLS: 424/093.500; 426/053.000; 426/061.000; 426/614.000; 119/006.800
NCL NCLM: 435/254.100
NCLS: 424/093.500; 426/053.000; 426/061.000; 426/614.000; 119/006.800
IC [7]
ICM: C12N001-14
ICS: A23L001-28
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 5 OF 11 USPATFULL
AN 2000:105410 USPATFULL
TI Methods of aquaculture by feeding larval shrimp Thraustochytrium and/or Schizochytrium microflora
IN Barclay, William R., Boulder, CO, United States
PA OmegaTech, Inc., Boulder, CO, United States (U.S. corporation)
PI US 6103225 20000815
AI US 1999-270301 19990315 (9)
RLI Division of Ser. No. US 1997-842874, filed on 17 Apr 1997, now patented, Pat. No. US 5908622, issued on 1 Jun 1999 which is a continuation of Ser. No. US 1995-461137, filed on 5 Jun 1995, now patented, Pat. No. US 5688500, issued on 18 Nov 1997 which is a division of Ser. No. US 1994-292490, filed on 18 Aug 1994, now patented, Pat. No. US 5518918, issued on 21 May 1996 which is a division of Ser. No. US 1992-962522, filed on 16 Oct 1992, now patented, Pat. No. US 5340742, issued on 23 Aug 1994 which is a continuation-in-part of Ser. No. US 1992-911760, filed on 10 Jul 1992, now patented, Pat. No. US 5340594 which is a division of Ser. No. US 1990-580778, filed on 11 Sep 1990, now patented, Pat. No. US 5130242, issued on 14 Jul 1992 which is a continuation-in-part of Ser. No. US 1989-439093, filed on 17 Nov 1989, now abandoned which is a continuation-in-part of Ser. No. US 1988-241410, filed on 7 Sep 1988, now abandoned
DT Utility
FS Granted
LN.CNT 1831
INCL INCLM: 424/093.100
INCLS: 119/200.000; 119/205.000; 119/215.000; 119/230.000; 424/093.700; 426/061.000; 426/805.000; 435/257.100; 435/261.000
NCL NCLM: 424/093.100

NCLS: 119/200.000; 119/205.000; 119/215.000; 119/230.000; 424/093.700;
426/061.000; 426/805.000; 435/257.100; 435/261.000

IC [7]

ICM: A01K061-00

ICS: A01N063-00; A23K001-18; C12N001-02; C12N001-12

EXF 424/93.1; 424/93.7; 119/200; 119/205; 119/215; 119/230; 426/61; 426/805;
435/257.1; 435/261

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 6 OF 11 USPATFULL

AN 1999:63095 USPATFULL

TI Food product containing thraustochytrium and/or schizochytrium
microflora and an additional agricultural based ingredient

IN Barclay, William R., Boulder, CO, United States

PA OmegaTech, Inc., Boulder, CO, United States (U.S. corporation)

PI US 5908622 19990601

AI US 1997-842874 19970417 (8)

RLI Continuation of Ser. No. US 1995-461137, filed on 5 Jun 1995, now
patented, Pat. No. US 5688500, issued on 18 Nov 1997 which is a division
of Ser. No. US 1994-292490, filed on 18 Aug 1994, now patented, Pat. No.
US 5518918, issued on 21 May 1996 which is a division of Ser. No. US
1992-962522, filed on 16 Oct 1992, now patented, Pat. No. US 5340742,
issued on 23 Aug 1994 which is a continuation-in-part of Ser. No. US
1992-911760, filed on 10 Jul 1992, now patented, Pat. No. US 5340594,
issued on 23 Aug 1994 which is a division of Ser. No. US 1990-580778,
filed on 11 Sep 1990, now patented, Pat. No. US 5130242, issued on 14
Jul 1992 which is a continuation-in-part of Ser. No. US 1989-439093,
filed on 17 Nov 1989, now abandoned which is a continuation-in-part of
Ser. No. US 1988-241410, filed on 7 Sep 1988, now abandoned

DT Utility

FS Granted

LN.CNT 1698

INCL INCLM: 424/093.100

INCLS: 426/061.000; 426/807.000; 435/041.000; 435/243.000; 435/257.100;
435/946.000; 424/093.300

NCL NCLM: 424/093.100

NCLS: 424/093.300; 426/061.000; 426/807.000; 435/041.000; 435/243.000;
435/257.100; 435/946.000

IC [6]

ICM: A01N063-00

ICS: A23C009-12; C12N001-00; C12N001-12

EXF 426/61; 426/807; 424/93.3; 424/93.1; 435/41; 435/243; 435/257.1; 435/946

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 7 OF 11 USPATFULL

AN 97:106793 USPATFULL

TI Method of aquaculture comprising feeding microflora having a small cell
aggregate size

IN Barclay, William R., Boulder, CO, United States

PA OmegaTech Inc., Boulder, CO, United States (U.S. corporation)

PI US 5688500 19971118

AI US 1995-461137 19950605 (8)

RLI Division of Ser. No. US 1994-292490, filed on 18 Aug 1994, now patented,
Pat. No. US 5518918, issued on 21 May 1996 which is a division of Ser.
No. US 1992-962522, filed on 16 Oct 1992, now patented, Pat. No. US
5340742, issued on 23 Aug 1994 which is a continuation-in-part of Ser.
No. US 1992-911760, filed on 10 Jul 1992, now patented, Pat. No. US
5340594, issued on 23 Aug 1994 which is a division of Ser. No. US
1990-580778, filed on 11 Sep 1990, now patented, Pat. No. US 5130242,
issued on 14 Jul 1992 which is a continuation-in-part of Ser. No. US
1989-439093, filed on 17 Nov 1989, now abandoned which is a
continuation-in-part of Ser. No. US 1988-241410, filed on 7 Sep 1988,
now abandoned

DT Utility

FS Granted
LN.CNT 1624
INCL INCLM: 424/093.100
 INCLS: 426/053.000; 426/054.000; 426/601.000; 426/608.000; 426/641.000;
 426/649.000; 435/134.000; 435/243.000; 435/254.100; 435/261.000
NCL NCLM: 424/093.100
 NCLS: 426/053.000; 426/054.000; 426/601.000; 426/608.000; 426/641.000;
 426/649.000; 435/134.000; 435/243.000; 435/254.100; 435/261.000
IC [6]
 ICM: A01N063-00
 ICS: A23L001-237; C12N001-00
EXF 426/53; 426/54; 426/601; 426/608; 426/615; 426/635; 426/641; 426/649;
 424/93.1; 435/134; 435/243; 435/254.1; 435/257.1; 435/261; 435/911;
 435/946
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 8 OF 11 USPATFULL
AN 96:43571 USPATFULL
TI Microfloral biomass having omega-3 highly unsaturated fatty acids
IN Barclay, William R., Boulder, CO, United States
PA Omegatech, Inc., Boulder, CO, United States (U.S. corporation)
PI US 5518918 19960521
AI US 1994-292490 19940818 (8)
RLI Division of Ser. No. US 1992-962522, filed on 16 Oct 1992, now patented,
 Pat. No. US 5340742 which is a continuation-in-part of Ser. No. US
 1992-911760, filed on 10 Jul 1992, now patented, Pat. No. US 5340594
 which is a division of Ser. No. US 1990-580778, filed on 11 Sep 1990,
 now patented, Pat. No. US 5130242 which is a continuation-in-part of
 Ser. No. US 1989-439093, filed on 17 Nov 1989, now abandoned which is a
 continuation-in-part of Ser. No. US 1988-241410, filed on 7 Sep 1988,
 now abandoned
DT Utility
FS Granted
LN.CNT 1648
INCL INCLM: 435/257.100
 INCLS: 426/615.000; 435/946.000
NCL NCLM: 435/257.100
 NCLS: 426/615.000; 435/946.000
IC [6]
 ICM: C12N001-12
 ICS: A23L001-00
EXF 435/134; 435/243; 435/254.1; 435/257.1; 435/261; 435/911; 435/946;
 426/49; 426/53; 426/601; 426/608; 426/615; 426/635; 426/641; 426/649
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 9 OF 11 USPATFULL
AN 94:73229 USPATFULL
TI Process for growing thraustochytrium and schizochytrium using non-
 chloride salts to produce a microfloral biomass having
 omega-3-highly unsaturated fatty acids
IN Barclay, William R., Boulder, CO, United States
PA Omegatech Inc., Boulder, CO, United States (U.S. corporation)
PI US 5340742 19940823
AI US 1992-962522 19921016 (7)
RLI Continuation-in-part of Ser. No. US 1992-911760, filed on 10 Jul 1992
 which is a division of Ser. No. US 1990-580778, filed on 11 Sep 1990,
 now patented, Pat. No. US 5130242 which is a continuation-in-part of
 Ser. No. US 1989-439093, filed on 17 Nov 1989, now abandoned which is a
 continuation-in-part of Ser. No. US 1988-241410, filed on 7 Sep 1988,
 now abandoned
DT Utility
FS Granted
LN.CNT 1614
INCL INCLM: 435/256.800

INCLS: 435/134.000; 435/254.100; 435/257.100; 435/911.000; 435/946.000
NCL NCLM: 435/256.800
NCLS: 435/134.000; 435/254.100; 435/257.100; 435/911.000; 435/946.000
IC [5]
ICM: C12N001-18
ICS: C12N001-12; C12N001-00; C12P007-64
EXF 435/134; 435/243; 435/254.1; 435/257; 435/258; 435/911; 435/946;
435/256.8; 435/257.1
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L5 ANSWER 10 OF 11 WPIDS (C) 2002 THOMSON DERWENT
AN 2001-522262 [57] WPIDS
DNC C2001-155879
TI Growing of eukaryotic microorganisms capable of producing lipids by adding carbon source and limiting nutrient source to fermentation medium to obtain specified biomass density.
DC D13 D16 E17 E37
IN BAILEY, R B; BARCLAY, W R; DIMASI, D; HANSEN, J M; KANEKO, T; MIRRASOUL, P J; RUECKER, C M; VEEDER, G T; REUCKER, C M; WEEDER, G T
PA (OMEG-N) OMEGATECH INC; (BAIL-I) BAILEY R B; (BARC-I) BARCLAY W R; (DIMA-I) DIMASI D; (HANS-I) HANSEN J M; (KANE-I) KANEKO T; (MIRR-I) MIRRASOUL P J; (RUEC-I) RUECKER C M; (VEED-I) VEEDER G T
CYC 94
PI WO 2001054510 A1 20010802 (200157)* EN 41p A23B007-10
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ
NL OA PT SD SE SL SZ TR TZ UG ZW
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DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC
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SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2001031201 A 20010807 (200174) A23B007-10
US 2001046691 A1 20011129 (200202) C12P007-64
ADT WO 2001054510 A1 WO 2001-US2715 20010126; AU 2001031201 A AU 2001-31201
20010126; US 2001046691 A1 Provisional US 2000-178588P 20000128, US
2001-771352 20010126
FDT AU 2001031201 A Based on WO 200154510
PRAI US 2000-178588P 20000128; US 2001-771352 20010126
IC ICM A23B007-10; C12P007-64
ICS A23D009-00; C12N001-00

L5 ANSWER 11 OF 11 WPIDS (C) 2002 THOMSON DERWENT
AN 2001-488710 [53] WPIDS
DNC C2001-146679
TI Process for obtaining lipids from microorganisms without using nonpolar organic solvent, by lysing cells and washing with aqueous solution.
DC B05 D16
IN ADU-PEASAH, S P; ENGELHARDT, B S; RUECKER, C M; VEEDER, G T
PA (OMEG-N) OMEGATECH INC; (ADUP-I) ADU-PEASAH S P; (ENGE-I) ENGELHARDT B S; (RUEC-I) RUECKER C M; (VEED-I) VEEDER G T
CYC 94
PI WO 2001053512 A1 20010726 (200153)* EN 32p C12P007-64
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NL OA PT SD SE SL SZ TR TZ UG ZW
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SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
AU 2001029636 A 20010731 (200171) C12P007-64
US 2002001833 A1 20020103 (200207) C12P007-64
ADT WO 2001053512 A1 WO 2001-US1806 20010119; AU 2001029636 A AU 2001-29636
20010119; US 2002001833 A1 Provisional US 2000-177125P 20000119, US
2001-766500 20010119
FDT AU 2001029636 A Based on WO 200153512
PRAI US 2000-177125P 20000119; US 2001-766500 20010119

IC ICM C12P007-64
ICS C12M001-33; C12M003-08; C12N001-12; C12P001-02; C12P001-04

=>

> s Thraustochytriales

- 2 FILE AGRICOLA
- 11 FILE AQUASCI
- 1 FILE BIOBUSINESS
- 19 FILE BIOSIS
- 4 FILE BIOTECHABS
- 4 FILE BIOTECHDS
- 1 FILE CABA
- 11 FILE CAPLUS
- 1 FILE CEABA-VTB
- 8 FILE FROSTI
- 11 FILE IFIPAT
- 6 FILE LIFESCI
- 1 FILE MEDLINE
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- 7 FILE SCISEARCH
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L1

"Thraustochytriales"

28

L1

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